L Number	Hits	Search Text	DB	Time stamp
1	2	6262246.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/01 12:40
2	13	gerald-christophe-p-g.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/01 12:40
3	38	jones-kenneth-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/01 12:40
4	19	bonini-james-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/01 12:41
6	16	borowsky-beth.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/01 12:41
7	13	npff adj receptor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/10/01 12:41

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NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	Jul 15	Data from 1960-1976 added to RDISCLOSURE
NEWS 5	Jul 21	Identification of STN records implemented
NEWS 6	Jul 21	Polymer class term count added to REGISTRY
NEWS 7	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 8	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 9	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 10	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 11	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 12	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 13	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 14	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 15	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 16	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation
NEWS 17	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS 18	SEP 22	DIPPR file reloaded
NEWS 19	SEP 25	INPADOC: Legal Status data to be reloaded
NEWS 20	SEP 29	DISSABS now available on STN

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NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
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NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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=> s jones kenneth /au
L2           61 JONES KENNETH

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=> s bonini james /au
L3            0 BONINI JAMES

=> s borowsky beth /au
L4           54 BOROWSKY BETH

=> s npff (s) receptor
L5          307 NPFF (S) RECEPTOR

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6          112 DUP REM L5 (195 DUPLICATES REMOVED)

=> s npff (a) receptor
L7          151 NPFF (A) RECEPTOR

=> s (npff (a) receptor) (s) agonist
L8           34 (NPFF (A) RECEPTOR) (S) AGONIST

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9           17 DUP REM L8 (17 DUPLICATES REMOVED)

=> d l9 total ibib kwic

L9   ANSWER 1 OF 17  CAPLUS  COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:        2003:261675  CAPLUS
DOCUMENT NUMBER:         138:287977
TITLE:                   Preparation of quinazolinylguanidines,
                         quinolinylguanidines, and N-sulfonyl
                         arginylphenylalaninamides for the treatment of pain
```

INVENTOR(S): Forray, Carlos C.; Craig, Douglas; Kawakami, Joel; Konkel, Michael J.; Boteju, Lakmal W.; Wetzel, John M.; Nobel, Stewart A.; Wan, Honghe
PATENT ASSIGNEE(S): Synaptic Pharmaceutical Corporation, USA
SOURCE: PCT Int. Appl., 173 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003026657	A1	20030403	WO 2002-US30215	20020924

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-963088 A 20010924
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ST **NPFF receptor agonist** quinazolinylguanidine quinolinylguanidine sulfonyl arginylphenylalaninamide; guanidine quinazolinyl quinolinyl prepn **agonist NPFF receptor**

L9 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:261609 CAPLUS
DOCUMENT NUMBER: 138:271980
TITLE: Preparation of N-sulfonyl dipeptides specific for NPFF receptors
INVENTOR(S): Boteju, Lakmal W.; Konkel, Michael J.; Kawakami, Joel K.; Wetzel, John
PATENT ASSIGNEE(S): Synaptic Pharmaceutical Corporation, USA
SOURCE: PCT Int. Appl., 139 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003026575	A2	20030403	WO 2002-US30258	20020924
WO 2003026575	A3	20030501		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-962920 A 20010924

OTHER SOURCE(S): MARPAT 138:271980
AB The invention describes dipeptides R1SO2NR3CHR2CONR4CHR6COR5 [R1 = (un)substituted (cyclo)alkyl, alkenyl, alkynyl, naphthyl, (hetero)arylalkyl, Ph, or heteroaryl; R2 = various amidino- or guanidino-substituted groups, 4-(4,5-dihydro-2-imidazolyl)phenyl, 2-amino-4-pyrimidinyl, tetrahydro-2-pyrrolyl, 4-piperidinyl; R3, R4 = H, (cyclo)alkyl, mono- or polyfluoro(cyclo)alkyl, (cyclo)alkenyl, alkynyl; R5 = OH, NH2, alkoxy, alkylamino, etc.; R6 = (un)substituted (hetero)arylalkyl or (hetero)aryl] or their pharmaceutically-acceptable salts which act as **agonists** and/or antagonists at one or more **NPFF receptor** subtypes and are useful for treating pain or urinary tract disorders. Thus, 1-naphthalenesulfonyl-Arg-Phe-NH2 was prepd. by the solid-phase method and shown to be an agonist concurrently at the NPFF1 and NPFF2 receptors.
ST sulfonyl peptide prepn **agonist NPFF receptor** ; analgesic sulfonyl peptide prepn **agonist NPFF receptor**; urinary tract disorder treatment sulfonyl peptide

L9 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:590837 CAPLUS
DOCUMENT NUMBER: 139:133838
TITLE: Preparation of N-sulfonyl dipeptides specific for NPFF receptors
INVENTOR(S): Boteju, Lakmal W.; Konkel, Michael J.; Kawakami, Joel K.; Wetzel, John
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 41 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003144310	A1	20030731	US 2002-253288	20020924

PRIORITY APPLN. INFO.: US 2001-324769P P 20010924
OTHER SOURCE(S): MARPAT 139:133838
AB The invention describes dipeptides R1SO2NR3CHR2CONR4CHR6COR5 [R1 = (un)substituted (cyclo)alkyl, alkenyl, alkynyl, naphthyl, (hetero)arylalkyl, Ph, or heteroaryl; R2 = various amidino- or guanidino-substituted groups, 4-(4,5-dihydro-2-imidazolyl)phenyl, 2-amino-4-pyrimidinyl, tetrahydro-2-pyrrolyl, 4-piperidinyl; R3, R4 = H, (cyclo)alkyl, mono- or polyfluoro(cyclo)alkyl, (cyclo)alkenyl, alkynyl; R5 = OH, NH2, alkoxy, alkylamino, etc.; R6= (un)substituted (hetero)arylalkyl or (hetero)aryl] or their pharmaceutically-acceptable salts which act as **agonists** and/or antagonists at one or more **NPFF receptor** subtypes and are useful for treating pain or urinary tract disorders. Thus, 1-naphthalenesulfonyl-Arg-Phe-NH2 was prepd. by the solid-phase method and shown to be an agonist concurrently at the NPFF1 and NPFF2 receptors.
ST sulfonyl peptide prepn **agonist NPFF receptor** ; analgesic sulfonyl peptide prepn **agonist NPFF receptor**; urinary tract disorder treatment sulfonyl peptide

L9 ANSWER 4 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1
ACCESSION NUMBER: 2003:4586 BIOSIS
DOCUMENT NUMBER: PREV200300004586
TITLE: Neuropeptide AF and FF modulation of adipocyte metabolism. Primary insights from functional genomics and effects on beta-adrenergic responsiveness.
AUTHOR(S): Lefrere, Isabelle; de Coppet, Pierre; Camelin, Jean-Claude; Le Lay, Soazig; Mercier, Nathalie; Elshourbagy, Nabil;

Bril, Antoine; Berrebi-Bertrand, Isabelle; Feve, Bruno; Krief, Stephane (1)
CORPORATE SOURCE: (1) Bioprojet Biotech, 4 Rue du Chesnay-Beauregard, 35762, BP 96205, Saint-Gregoire, France: S.Krief@bioprojet.com France
SOURCE: Journal of Biological Chemistry, (October 18 2002) Vol. 277, No. 42, pp. 39169-39178. print.
ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
AB The presence of a neuropeptide AF and FF **receptor** (**NPFF** -R2) mRNA in human adipose tissue (Elshourbagy, N. A., Ames, R. S., Fitzgerald, L. R., Foley, J. J., Chambers, J. K.,. . . correlated with a clear induction in the density of beta2- and beta3-AR proteins, and in the potency of beta-AR subtype-selective **agonists** to stimulate adenylyl cyclase activity. Altogether, these data show that NPFF-R1 and NPFF-R2 are functionally present in adipocytes and suggest. . .

L9 ANSWER 5 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:314660 BIOSIS
DOCUMENT NUMBER: PREV200300314660
TITLE: IDENTIFICATION OF NOVEL LIGANDS FOR NEUROPEPTIDE FF RECEPTOR - 2 DERIVED FROM Rf - AMIDE DIPEPTIDE.
AUTHOR(S): Simonin, F. (1); Matifas, A. (1); Schmitt, M.; Kieffer, B. (1); Bourguignon, J. J.
CORPORATE SOURCE: (1) IGBMC, UMR7104, Illkirch, France France
SOURCE: Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 544.12. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience Orlando, Florida, USA November 02-07, 2002 Society for Neuroscience
.
DOCUMENT TYPE: Conference
LANGUAGE: English
AB. . . study, we had shown that N alpha-N-benzoyl-L-arginine-L-phenylalanine-amide (RF2), a derivative from the carboxy-terminal dipeptide RF-amide of NPFF, binds to native **NPFF-receptors** from rat spinal cord. In a competition assay, using membrane homogenates from cells expressing recombinant hNPFF2 and (125I)-Y-8-F-amide as radioligand, we showed that RF2 binds to this receptor (Ki value of 500nM) confirming our previous observation on native **NPFF-receptors**. We then tested approximately 150 derivatives from RF2 and identified several compounds with improved affinity for hNPFF2 when compared to RF2. In order to study the **agonist** or antagonist activity of these ligands, we further set up a functional assay consisting in **agonist**-promoted stimulation of the (35S)GTPgammaS binding to hNPFF2. In our conditions NFF stimulated the (35S)GTPgammaS binding with an EC50 value of. . .

L9 ANSWER 6 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 2
ACCESSION NUMBER: 2001:428037 BIOSIS
DOCUMENT NUMBER: PREV200100428037
TITLE: DNA encoding mammalian neuropeptides FF (NPFF) receptors and uses thereof.
AUTHOR(S): Gerald, Christophe P. G. (1); Jones, Kenneth A.; Bonini, James A.; Borowsky, Beth
CORPORATE SOURCE: (1) Ridgewood, NJ USA
ASSIGNEE: Synaptic Pharmaceutical Corporation
PATENT INFORMATION: US 6262246 July 17, 2001
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 17, 2001) Vol. 1248, No. 3, pp. No Pagination. e-file.

ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English
AB This invention provides isolated nucleic acids encoding mammalian **NPFF receptors**, purified mammalian **NPFF receptors**, vectors comprising nucleic acid encoding mammalian **NPFF receptors**, cells comprising such vectors, antibodies directed to mammalian **NPFF receptors**, nucleic acid probes useful for detecting nucleic acid encoding mammalian **NPFF receptors**, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian **NPFF receptors**, transgenic, nonhuman animals which express DNA encoding normal or mutant mammalian **NPFF receptors**, methods of isolating mammalian **NPFF receptors**, methods of treating an abnormality that is linked to the activity of the mammalian **NPFF receptors**, as well as methods of determining binding of compounds to mammalian **NPFF receptors**, methods of identifying **agonists** and antagonists of **NPFF receptors**, and **agonists** and antagonists so identified.

L9 ANSWER 7 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 3
ACCESSION NUMBER: 2001:276876 BIOSIS
DOCUMENT NUMBER: PREV200100276876
TITLE: (125I)EYF: A new high affinity radioligand to neuropeptide FF receptors.
AUTHOR(S): Gouarderes, Christine; Mollereau, Catherine; Tafani, Jean A. M.; Mazarguil, Honore; Zajac, Jean-Marie (1)
CORPORATE SOURCE: (1) Institut de Pharmacologie et Biologie Structurale, CNRS, 205 Route de Narbonne, 31077, Toulouse: zajac@ipbs.fr France
SOURCE: Peptides (New York), (April, 2001) Vol. 22, No. 4, pp. 623-629. print.
ISSN: 0196-9781.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English
AB . . . which displayed a low affinity. Autoradiographic studies demonstrated that (125I)EYF binding sites were fully inhibited by a synthetic Neuropeptide FF **agonist** (1DMe) in all areas of the rat brain. The density of (125I)EYF binding sites was high in the intralaminar thalamic. . . . should bind to the same receptor. Furthermore, these data indicate that (125I)EYF is a useful radiolabeled probe to investigate the **NPFF receptors**; its major advantages being its high affinity and the very low non-specific binding it induces.

L9 ANSWER 8 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 4
ACCESSION NUMBER: 2001:162868 BIOSIS
DOCUMENT NUMBER: PREV200100162868
TITLE: Cholera and pertussis toxins inhibit differently hypothermic and anti-opioid effects of neuropeptide FF.
AUTHOR(S): Frances, Bernard; Lahlou, Hicham; Zajac, Jean-Marie (1)
CORPORATE SOURCE: (1) Institut de Pharmacologie et de Biologie Structurale, CNRS, 205 Route de Narbonne, 31077, Toulouse Cedex: zajac@ipbs.fr France
SOURCE: Regulatory Peptides, (2 April, 2001) Vol. 98, No. 1-2, pp. 13-18. print.
ISSN: 0167-0115.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English
AB . . . or cholera toxins, effects of neuropeptide FF (NPFF), on hypothermia and morphine-induced analgesia, were assessed. NPFF and a potent NPFF

agonist, 1DMe (0.005-22 nmol) injected into the lateral ventricle decreased morphine analgesia and produced naloxone (2.5 mg kg-1, s.c.)-resistant hypothermia after. . . suggest that NPFF-induced hypothermia depends on the stimulation of Gs (but not Gi) proteins. In contrast, anti-opioid effects resulting from **NPFF-receptor** stimulation do not involve a cholera toxin-sensitive transducer protein.

L9 ANSWER 9 OF 17 MEDLINE on STN DUPLICATE 5
ACCESSION NUMBER: 2001325784 MEDLINE
DOCUMENT NUMBER: 21225161 PubMed ID: 11325787
TITLE: Agonist and antagonist activities on human NPFF(2) receptors of the NPY ligands GR231118 and BIBP3226.
AUTHOR: Mollereau C; Gouarderes C; Dumont Y; Kotani M; Detheux M; Doods H; Parmentier M; Quirion R; Zajac J M
CORPORATE SOURCE: Institut de Pharmacologie et Biologie Structurale, 205 route de Narbonne, 31077 Toulouse, France.
SOURCE: BRITISH JOURNAL OF PHARMACOLOGY, (2001 May) 133 (1) 1-4. Journal code: 7502536. ISSN: 0007-1188.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200107
ENTRY DATE: Entered STN: 20010730
Last Updated on STN: 20010730
Entered Medline: 20010726

AB . . . in fact possess significant ability to interact with the human NPFF(2) receptors. NPY Y(1) antagonist BIBP3226 and mixed Y(1) antagonist/Y(4) **agonist** GR231118 are able to displace with low affinity, 50 -- 100 nM, the specific binding on **NPFF receptors** expressed in CHO cells as well as in rat dorsal spinal cord, an affinity however superior to those determined against. . .

L9 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:227536 CAPLUS
DOCUMENT NUMBER: 132:261389
TITLE: Mammalian neuropeptide FF receptors and cDNA and methods for drug screening, diagnosis and therapy
INVENTOR(S): Gerald, Christophe P. G.; Jones, Kenneth A.; Bonini, James A.; Borowsky, Beth
PATENT ASSIGNEE(S): Synaptic Pharmaceutical Corporation, USA
SOURCE: PCT Int. Appl., 253 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018438	A1	20000406	WO 1999-US22384	19990924
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6262246	B1	20010717	US 1999-255368	19990222
CA 2311462	AA	20000406	CA 1999-2311462	19990924
AU 9961649	A1	20000417	AU 1999-61649	19990924

EP 1032423 A1 20000906 EP 1999-948483 19990924
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 2002525095 T2 20020813 JP 2000-571955 19990924
PRIORITY APPLN. INFO.: US 1998-161113 A 19980925
US 1999-255368 A 19990222
WO 1999-US22384 W 19990924
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB This invention provides isolated nucleic acids encoding mammalian **NPFF receptors**, purified mammalian **NPFF receptors**, vectors comprising nucleic acid encoding mammalian **NPFF receptors**, cells comprising such vectors, antibodies directed to mammalian **NPFF receptors**, nucleic acid probes useful for detecting nucleic acid encoding mammalian **NPFF receptors**, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian **NPFF receptors**, transgenic, nonhuman animals which express DNA encoding normal or mutant mammalian **NPFF receptors**, methods of isolating mammalian **NPFF receptors**, methods of treating an abnormality that is linked to the activity of the mammalian **NPFF receptors**, as well as methods of detg. binding of compds. to mammalian **NPFF receptors**, methods of identifying **agonists** and antagonists of **NPFF receptors**, and **agonists** and antagonists so identified. Thus, the cDNAs for rat and human NPFF1 and NPFF2 receptors were cloned and sequenced. The electrophysiol. and ligand binding of these receptors, the biochem. of the signaling process, and localization of the receptor mRNAs in rat and humans were examd.

L9 ANSWER 11 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 6
ACCESSION NUMBER: 2001:24677 BIOSIS
DOCUMENT NUMBER: PREV200100024677
TITLE: Role of adenosine in the spinal antinociceptive and morphine modulatory actions of neuropeptide FF analogs.
AUTHOR(S): Gouarderes, Christine; Sutak, Maaja; Zajac, Jean Marie; Jhamandas, Khem (1)
CORPORATE SOURCE: (1) Department of Pharmacology and Toxicology, Faculty of Health Sciences, Queen's University, Kingston, ON, K7L 3N6: Jhamanda@post.queensu.ca Canada
SOURCE: European Journal of Pharmacology, (20 October, 2000) Vol. 406, No. 3, pp. 391-401. print.
ISSN: 0014-2999.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

AB. . . spinal cord to produce antinociceptive effects that are partially attenuated by opioid antagonists, and at sub-effective doses neuropeptide FF receptor **agonists** augment spinal opioid antinociception. Since adenosine plays an intermediary role in the production of spinal opioid antinociception, this study investigated whether this purine has a similar role in the expression of spinal effects produced by neuropeptide FF receptor **agonists**. In rats bearing indwelling spinal catheters, injection of adenosine receptor **agonists**, N6-cyclohexyladenosine (CHA, 1.72 nmol) and N-ethylcarboxiamidoadenosine (NECA, 1.95 nmol), as well as morphine (13.2 nmol) elicited antinociception in the tail-flick. . . low dose of 1DMe (0.009 nmol) or 3D (0.009 nmol) very markedly potentiated the antinociceptive actions of the adenosine receptor **agonist**, N6-cyclohexyladenosine (0.43, 0.86 and 1.72 nmol) in the tail-flick and paw-pressure tests 50 min after injection. The results suggest that the antinociceptive and morphine modulatory effects resulting from activation of spinal **NPFF receptors** could be due to an increase in the actions or

availability of adenosine.

L9 ANSWER 12 OF 17 MEDLINE on STN DUPLICATE 7
ACCESSION NUMBER: 2000047129 MEDLINE
DOCUMENT NUMBER: 20047129 PubMed ID: 10579807
TITLE: Dual localization of neuropeptide FF receptors in the rat dorsal horn.
AUTHOR: Gouarderes C; Roumy M; Advokat C; Jhamandas K; Zajac J M
CORPORATE SOURCE: Institut de Pharmacologie et de Biologie Structurale, CNRS, Toulouse, France.
SOURCE: SYNAPSE, (2000 Jan) 35 (1) 45-52.
Journal code: 8806914. ISSN: 0887-4476.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200001
ENTRY DATE: Entered STN: 20000114
Last Updated on STN: 20000114
Entered Medline: 20000105
AB . . . NPFF receptor binding was not modified during the development of spinal opioid tolerance. The pre- and postsynaptic localization of spinal **NPFF receptors** provide further support for heterogeneity in the pain modulation by NPFF and related **agonists**.

L9 ANSWER 13 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2001:76259 BIOSIS
DOCUMENT NUMBER: PREV200100076259
TITLE: Pharmacological characterization of two recombinant human NPFF receptors.
AUTHOR(S): Adham, N. (1); Forray, C.; Boyle, N.; Heurich, R.; Bonini, J. A.; Borowsky, B.; Gerald, C.; Branchek, T. A.
CORPORATE SOURCE: (1) Synaptic Pharmaceutical Corporation, Paramus, NJ USA
SOURCE: Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-140.10. print.
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000 Society for Neuroscience
. ISSN: 0190-5295.
DOCUMENT TYPE: Conference
LANGUAGE: English
SUMMARY LANGUAGE: English
AB. . . other peptides studied showed overall similar binding affinities for both NPFF1 and NPFF2 receptors with little species differences in pharmacology. **NPFF receptors** displayed high affinity for FMRFamide and low affinity for the D-Met analog, suggesting stereoselectivity for this peptide. In functional assays,. . . chimera but not in cells expressing the chimera alone. In agreement with the binding results, frog PP was a selective **agonist** for NPFF2 receptor in functional assays. The discovery and identification of two **NPFF receptor** subtypes and their selective ligands provide useful tools in determining the physiological and therapeutic roles of NPFF.

L9 ANSWER 14 OF 17 MEDLINE on STN DUPLICATE 8
ACCESSION NUMBER: 1998440290 MEDLINE
DOCUMENT NUMBER: 98440290 PubMed ID: 9767158
TITLE: Anti-opioid efficacy of neuropeptide FF in morphine-tolerant mice.
AUTHOR: Gelot A; Frances B; Roussin A; Latapie J P; Zajac J M
CORPORATE SOURCE: Institut de Pharmacologie et de Biologie Structurale, CNRS, 205 Route de Narbonne, 31077, Toulouse, France.
SOURCE: BRAIN RESEARCH, (1998 Oct 19) 808 (2) 166-73.

Journal code: 0045503. ISSN: 0006-8993.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199812
ENTRY DATE: Entered STN: 19990115
Last Updated on STN: 19990115
Entered Medline: 19981211

AB The modulatory effects of 1DMe (d-Tyr-Leu-(NMe)Phe-Gln-Pro-Gln-Arg-Phe-NH2), an **agonist** of Neuropeptide FF (**NPFF**) **receptors**, on opioid antinociceptive activity have been compared in naive and tolerant mice in the tail-flick and the hot-plate tests. In. . .

L9 ANSWER 15 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1998:505467 BIOSIS
DOCUMENT NUMBER: PREV199800505467
TITLE: Anti-opioid efficacy of neuropeptide FF in morphine-tolerant mice.
AUTHOR(S): Gelot, Agathe; Frances, Bernard (1); Roussin, Anne; Latapie, Jean-Philippe; Zajac, Jean-Marie
CORPORATE SOURCE: (1) Inst. Pharmacologie Biologie Structurale, CNRS, 205 Route Narbonne, 31077 Toulouse France
SOURCE: Brain Research, (Oct. 19, 1998) Vol. 80, No. 2, pp. 166-173.
ISSN: 0006-8993.
DOCUMENT TYPE: Article
LANGUAGE: English

AB The modulatory effects of 1DMe (D-Tyr-Leu-(NMe)Phe-Gln-Pro-Gln-Arg-Phe-NH2), an **agonist** of Neuropeptide FF (**NPFF**) **receptors**, on opioid antinociceptive activity have been compared in naive and tolerant mice in the tail-flick and the hot-plate tests. In. . . detected, whatever doses tested. Neither the NPFF-like immunoreactivity content of spinal cord and of olfactory bulbs, nor the density of **NPFF receptors** in olfactory bulbs, were altered. These results indicate that a chronic morphine treatment modifies the pharmacological properties of NPFF but. . .

L9 ANSWER 16 OF 17 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 9
ACCESSION NUMBER: 1997:207499 BIOSIS
DOCUMENT NUMBER: PREV199799506702
TITLE: Differential modulation of mu- and delta-opioid antinociception by neuropeptide FF receptors in young mice.
AUTHOR(S): Desprat, C.; Zajac, J.-M. (1)
CORPORATE SOURCE: (1) Inst. Pharmacol Biol. Structurale, CNRS, 205 Route de Narbonne, 31077 Toulouse France
SOURCE: Neuropeptides, (1997) Vol. 31, No. 1, pp. 1-7.
ISSN: 0143-4179.
DOCUMENT TYPE: Article
LANGUAGE: English

AB. . . equally involved in pups. An NPFF analog, 1DMe, reduced the analgesic effect of DAGO and (D.Ala-2)deltorphin-I, mu and 8 selective **agonists** respectively. However, a high dose of 1DMe (22 nmol) increased both morphine and (D.Ala-2)deltorphin-I-induced analgesia. Dose-response curves for 1DMe in. . . 1DMe preferentially reversed mu-receptor-mediated but increased delta-receptor-mediated analgesia. These findings demonstrate differences in control of mu- and delta-induced analgesia by **NPFF receptors**.

L9 ANSWER 17 OF 17 MEDLINE on STN DUPLICATE 10
ACCESSION NUMBER: 95022051 MEDLINE
DOCUMENT NUMBER: 95022051 PubMed ID: 7936102

TITLE: Characterization of a potent **agonist** for **NPFF receptors**: binding study on rat spinal cord membranes.

AUTHOR: Devillers J P; Mazarguil H; Allard M; Dickenson A H; Zajac J M; Simonnet G

CORPORATE SOURCE: INSERM U. 259, Universite de Bordeaux II, France.

SOURCE: NEUROPHARMACOLOGY, (1994 May) 33 (5) 661-9.
Journal code: 0236217. ISSN: 0028-3908.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199411

ENTRY DATE: Entered STN: 19941222
Last Updated on STN: 19941222
Entered Medline: 19941107

TI Characterization of a potent **agonist** for **NPFF receptors**: binding study on rat spinal cord membranes.